

Slim Video Wall






User's Manual

The information given in this document is carefully checked and believed to be reliable. However, MAKERS takes no response for any failure or product damage caused by the application of this information.

All manual are subject to change without notification.

WARNING

Before operating the set, please read this manual carefully.

 WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	
	
WARNING : The unit is operated at dangerous voltages. The unit may only be opened by an authorized specialist. All maintenance and servicing work must be carried out by an authorized company. Repairs that are carried out incorrectly could result in fatal injuries to the user.	The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.
	
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING :

To reduce the risk of electric shock does not remove cover (or back). No user serviceable parts inside . Refer servicing to qualified service personnel. To prevent fire or shock hazard, do not expose the rear of the set to rain or moisture. Do not rub or strike the Active Matrix LCD with anything hard as this may scratch, mark, or damage the Active Matrix LCD permanently.

CAUTION:

Unauthorized tampering with the inside of the TV invalidates the warranty.
The manufacturer shall not warrant for any damage caused by improper maintenance and/or repair work by third parties.

Important safeguards for you and your new product:

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product and save them for future reference.

1. Read Instructions

2. Follow Instructions

All operating and use instructions should be followed.

3. Retain Instructions

The safety and operating instructions should be retained for future reference.

4. Heed Warnings

All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning

Disconnect the unit from the electricity supply before cleaning. Do not use abrasive cleaners. Use a damp cloth for cleaning.

WARNING (cont)

6. Water and Moisture

Do not use this apparatus near water.

7. Transporting Product

A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.

8. Attachments

Do not use attachments not recommended by DIGIMORE as they may cause hazards.

9. Ventilation

Do not block any of the ventilation openings.
Install in accordance with the manufacturer's instructions.

10. Power Sources

This product should be operated only from the type of power source indicated on the marking label.
If you are not sure of the type of power supply to your home, consult your supplying dealer.

11. Power Lead Polarization

This product is equipped with a three-wire grounding-type cord. This is a safety feature. Do not defeat the safety purpose of the grounding-type cord.

12. Power Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.

13. Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. A "face plate" also needs to be installed with an isolating capacitor to prevent any damage from static.

14. Lightning

For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent possible damage to the product due to lightning and power-line surges.

15. Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to avoid contact with such power lines or circuits, as contact with them might be fatal.

16. Earthing the product

This product must be earthed properly to comply with the safety regulations in the country of use. If you are unsure of these regulations, please consult a qualified electrician.

WARNING (cont)

17. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages or other hazards. Refer all servicing to qualified service personnel. If the Set does not operate properly, switch it off and call your dealer.

18. Damage Requiring Service

Isolate this product from the mains supply and refer servicing to qualified service personnel under the following conditions:

- If the power-supply cord or plug is damaged.
- If the glass front has been damaged.
- If there is ingress of water between the glass and the LCD screen.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

19. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition and the front seal is intact.

20. Mounting

The product should be mounted on a wall only as recommended in the instructions.

21. Power

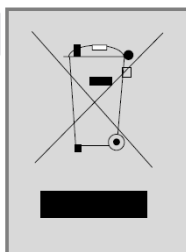
This set operates on an AC supply; the voltage is as indicated on the label on the Manual. This appliance must be earthed at all times through the chassis as well as through the power lead.

22. Location

Do not install on an unstable location with support area smaller than the DID SET.
Please secure enough space for safety use.

WARNING (cont)


Note



This product is designed and manufactured with high quality materials and components which can be recycled and reused. This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product. Please, help us to conserve the environment we live in!

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● Supplied Accessories

Make sure the following accessories are provided with your product. These should all be included in the box with the main LCD screen.



Remote controller



Battery 1.5V
AAA size



Power cord



User's manual

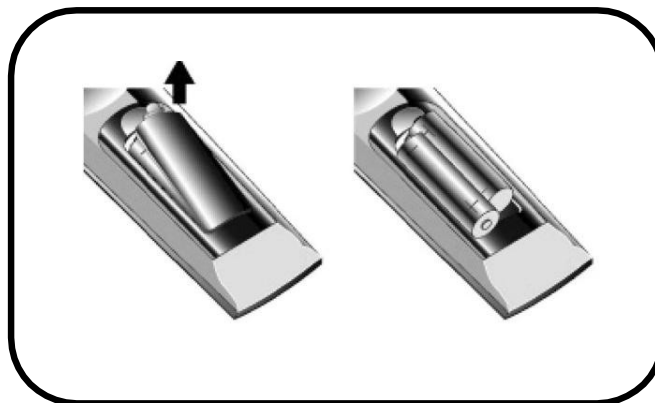


Serial cable - option
(IR Bypass cable)



DVI cable

● Remote Controller



- ▶ Remove the rear cover of the remote controller by pressing the arrow Symbol downwards and then pulling firmly to remove it.
- ▶ Insert two supplied batteries (1.5V of AAA type).
- ▶ Ensure that the polarities (+ and -) of the batteries are aligned correctly. Close the cover.



Display

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KEY ARRANGEMENTS



● Front panel LED Operations

Status	Color	Operation
Power Off	Red	On
Normal	Green	On
Not Connected (No signal)	Green	Blinking
DPMS	Red	Blinking

● Front Panel Key Descriptions

Key Name	Operation
Power Key	▶ Power On/Off.
Menu Key	▶ Activates main OSD menu. ▶ Navigates higher menu in main OSD menu. ▶ Stops auto frequency searching. ▶ Exits OSD menu.
Select Key	▶ Activates OSD menu of input source selecting. ▶ Changes input source by selecting. ▶ Executes functions (by OSD help commands) in main OSD menu. ▶ Activates Child menu.
Up Key	▶ Navigates input source. ▶ Executes function (by OSD help commands) in main OSD menu. ▶ Navigates previous menu in main OSD menu.
Down Key	▶ Navigates input source. ▶ Executes function (by OSD help commands) in main OSD menu. ▶ Navigates next menu in main OSD menu.
Left Key	▶ Decreases sound volume of speaker/headphone. ▶ Executes function (by OSD help commands) in main OSD menu. ▶ Decreases values of user menu in main OSD menu.
Right Key	▶ Increases sound volume of speaker/headphone. ▶ Executes function by OSD help commands in main OSD menu. ▶ Increases values of user menu in main OSD menu.

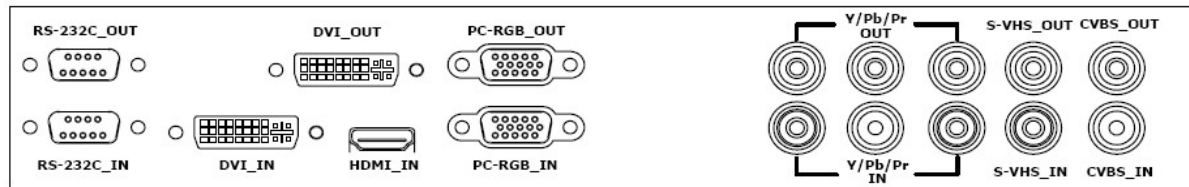
● IR-Remote controller Descriptions

Key Name	Description
Power	▶ Power On/Off
Menu	▶ Same as "Menu key" on keypad.
Up	▶ Same as "Up key" on keypad
Down	▶ Same as "Down key" on keypad
Right	▶ Same as "Right key" on keypad
Left	▶ Same as "Left key" on keypad
Enter	▶ Same as "Select key" on keypad
EXIT	▶ Exit OSD menu
Info	▶ Displays input source information
Sleep	▶ Set minimum sleep timer value more than current sleep timer value when sleep timer OSD activated ▶ If sleep timer is maximum value, disables sleep timer
Mute	▶ Toggles sound status of speaker/headphone in mute.
Source	▶ Activates OSD of source change. ▶ Deactivates OSD of source change.
PSM(Picture Standard Mode)	▶ Activates OSD of picture standard mode. ▶ Deactivates OSD of picture standard mode.
SSM(Sound Standard Mode)	▶ Activates OSD of sound standard. ▶ Deactivates OSD of sound standard.
ARC	▶ Activates OSD of aspect ratio control. ▶ Deactivates OSD of aspect ratio control.
STILL	▶ Toggles picture status between motion and still image.
PRE_CH	▶ N/A
Dual I-II / MTS	▶ Activates OSD of MTS sound format. ▶ Deactivates OSD of MTS sound format.
PIP	▶ Toggles PIP status
PIP Input	▶ Change PIP input sources when PIP is on
PIP Size	▶ Change PIP image size when PIP is on
PIP Position	▶ Change PIP position when PIP image size is not double screen.
SWAP	▶ Swap main input source and PIP input source
S. Select	▶ Select main/PIP sound source when PIP is on
PC	▶ Selects input source of PC.
TV	▶ N/A
0~9	▶ Enter digit value to Active SET ID
BLUE	▶ Set Active SET ID
RED	▶ Delete Active SET ID

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● Connection Details



● Interface Description

Interface		Description
In Connection	RS-232 In	• Facility to control the screen via RS232 protocol
	DVI-D In	• High Definition Multimedia Input
	HDMI-In	• High Definition Multimedia Input
	PC(RGB)-In	• PC Screen Input
	Component-In	• Y, Pb, Pr Video Input
	CVBS-In	• CVBS Input
	S-Video-In	• Y, C Input
Out Connection	RS-232 Out	• Facility to control the screen via RS232 protocol • IR Bypass Out (#9 Pin)
	DVI-Out	• High Definition Multimedia Out • Current source display Out
	PC(RGB)-Out	• PC Screen Out
	Component-Out	• Y, Pb, Pr Video Out
	CVBS-Out	• CVBS Out
	S-Video-Out	• Y, C Out

1. MENU OVERVIEW

In this menu system, there are several ways to customize the menu settings provided.

Most menus consist of three levels to set up the options, but some require greater depth for the variety of settings. If you press the **MENU** button, only the first and second level of the menu system will appear on the monitor screen. The third level can be displayed by pressing **SELECT** (or **▶**). If a menu has more than three levels, the pop-up dialogue box will be displayed as the fourth or fifth level.

1) To show and remove the Menu:

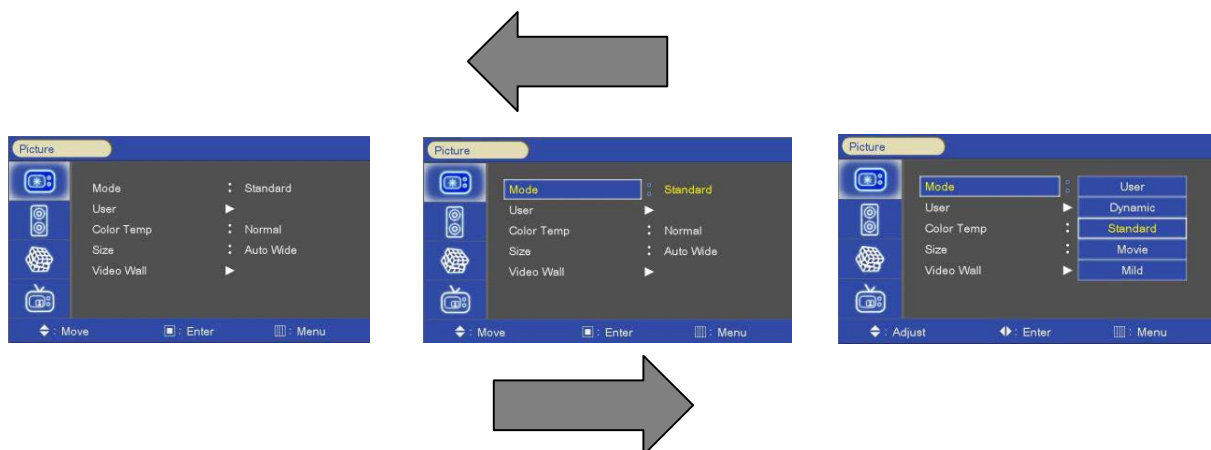
Press the **MENU** button on the Remote Control to display the menu. A second press of the **MENU** button or a press of the **EXIT** button will take you back to monitor viewing.

2) To go to the next level:

Press **SELECT** (or **▶**) on the Remote Control.

3) To go back to the previous level:

Press **MENU** (or **◀**) on the Remote Control.



4) Typical Menu Operation

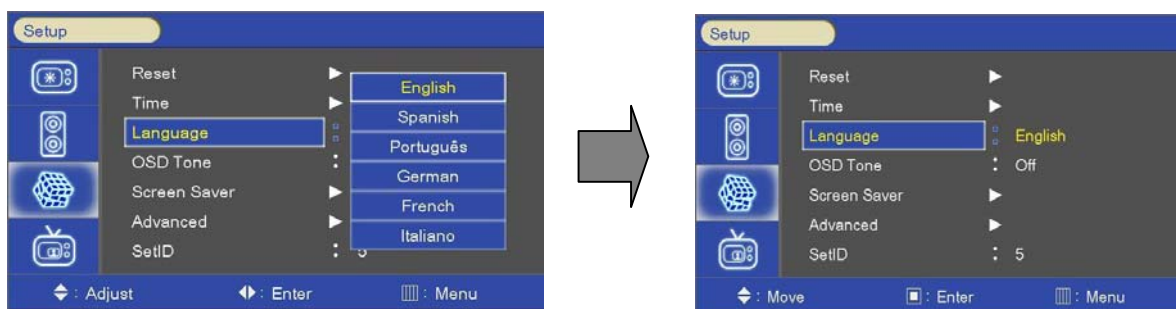
1. Press **MENU** button: The main menu will appear.
2. Use **▲/▼** to select the desired menu option (icon).
3. While the desired menu option is selected, press **▶** or (**SELECT**) to move to the second level.
4. Use **▲/▼** to select the second menu option.
5. Press **▶** or (**SELECT**) to move to the third level: Some menu options require additional steps.
6. Press **MENU** to return to the previous menu or press **EXIT** on the Remote Control to return to monitor viewing.

2. BASIC OPERATION

1) Turning On the Monitor

1. First, connect power cord correctly. At this moment, the monitor switches to standby or power on mode. In standby mode, in order to turn monitor on, press the **POWER** button on the remote control.
2. Select the viewing source by using **SOURCE** button on the remote control.

2) On Screen Menus Language Selection



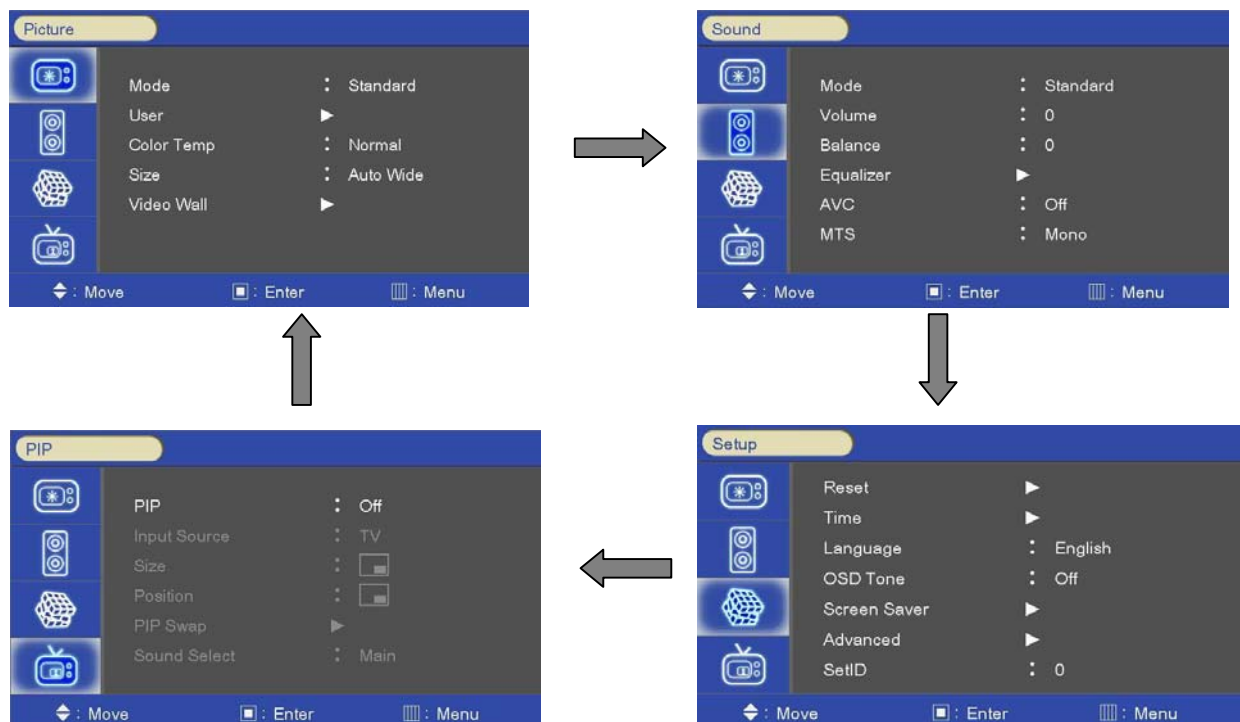
- The menus can be shown on the screen in the selected language. First select your language.

1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select **Menu Language** menu.
3. Press the ► button and then use ▲/▼ button to select your desired language:
From this point on, the on-screen menus will be shown in the selected language.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

3. On Screen Menus Selection and Adjustment

1) How to adjust the OSD screen

1. Press the **MENU** button and then ▲/▼ button to select each menu.
2. Press the ► button and then use ▲/▼/◀/▶ button to display the available menus.

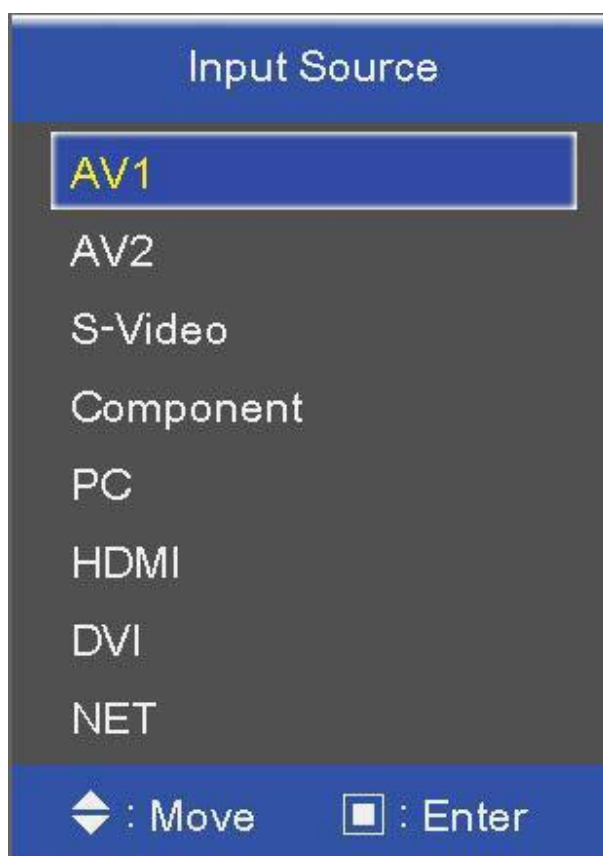


- Your monitor's OSD (On Screen Display) may differ slightly from what is shown in this manual.

4. SELECT VIDEO INPUT

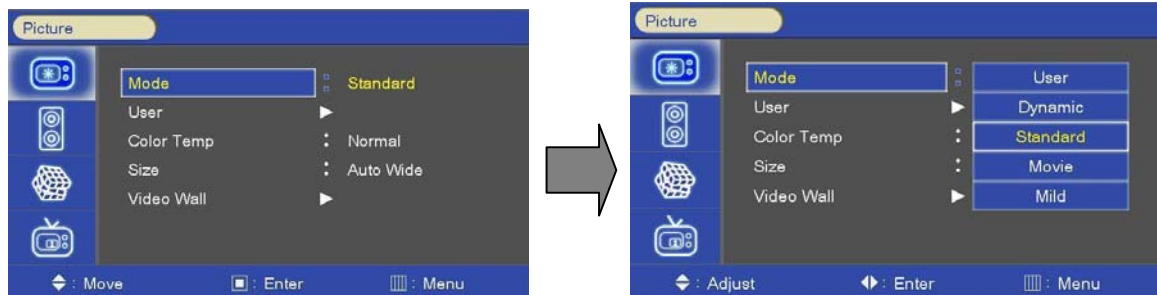
1) How to Select Video Source by OSD (NET : Neptune option)

1. Press the **SOURCE** button and then ▲/▼ button to select each video source.
2. Press the ►/ **SELECT** button to go to desired video source



5. PICTURE MENU OPTIONS

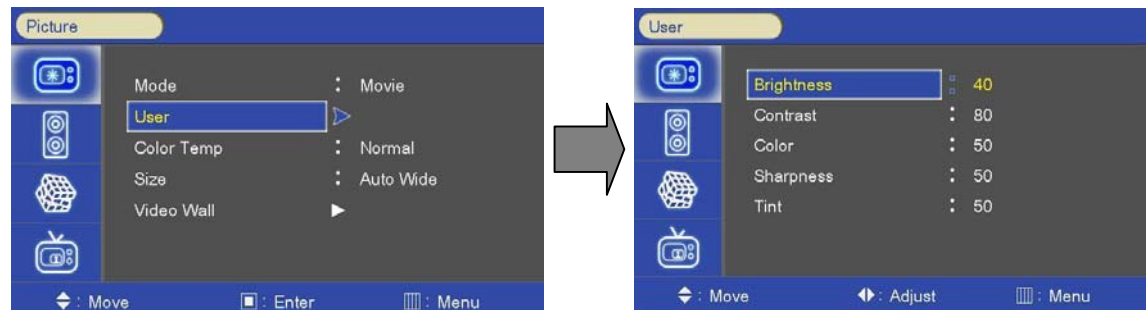
1) Picture Mode



- Select the picture appearance to suit your preference and viewing situations.

1. Press the **MENU** button and then **▲/▼** button to select the **PICTURE** icon.
2. Press the **▶** button and then use **▲/▼** button to select the desired picture option;
User, Dynamic, Standard, Movie, Mild.
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

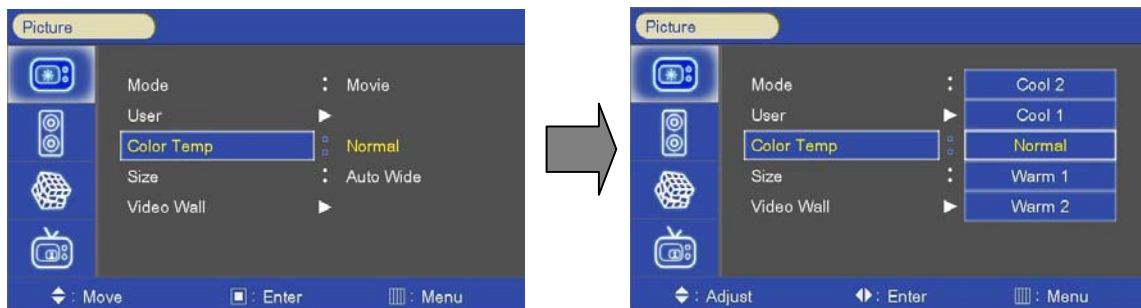
2) User Control



- Adjust the picture appearance to suit your preference and viewing situations.

1. Press the **MENU** button and then **▲/▼** button to select the **PICTURE** icon.
2. Press the **▶** button and then use **▲/▼** button to select the desired picture option;
Contrast, Brightness, Color, Sharpness (All Sources), Phase(Component), Tint(Video).
3. Press **▶** button and then use **◀/▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

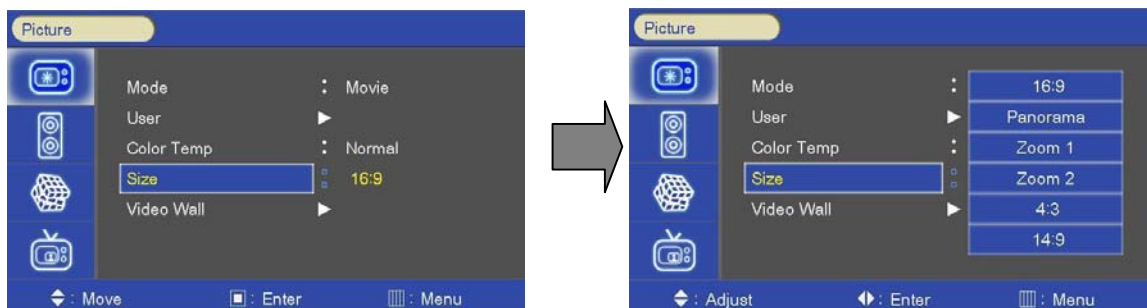
3) Color Temperature Control



- Choose one of five automatic color adjustments. Set to warm to enhance hotter colors such as red, or set to cool to see less intense colors with more blue.

1. Press the **MENU** button and then use ▲/▼ button to select the **PICTURE** icon.
2. Press the ► button and then use ▲/▼ button to select **Color Temperature** menu.
3. Press the ► button and then use ▲/▼ button to select desired option:
Cool2, Cool1, Normal, Warm1, Warm2.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

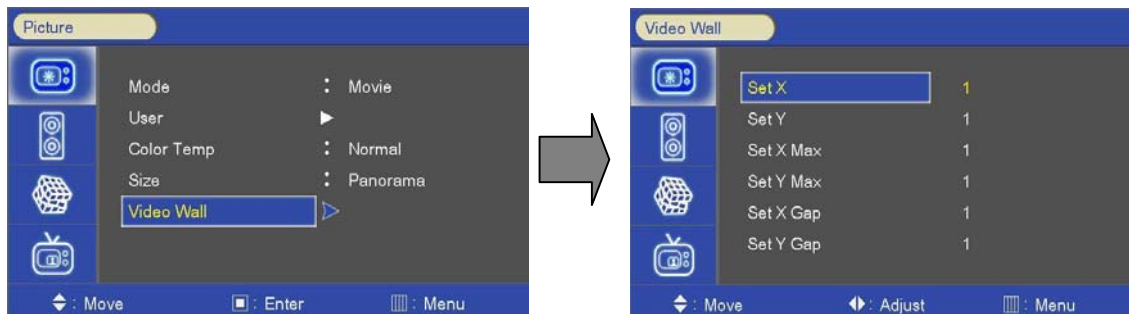
4) Aspect Ratio



- Selects the screen format.

1. Press the **MENU** button and then use ▲/▼ button to select the **PICTURE** icon.
2. Press the ► button and then use ▲/▼ button to select **Aspect Ratio** menu.
3. Press the ► button and then use ▲/▼ button to select desired option:
For Video Input - 16:9, Panorama, Zoom1, Zoom2, 4:3, 14:9.
For PC Input - 16:9, 4:3, 1:1.
For DVI, Component Input – Real Resolution, 16:9, Panorama, Zoom1, Zoom2, 4:3, 14:9.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

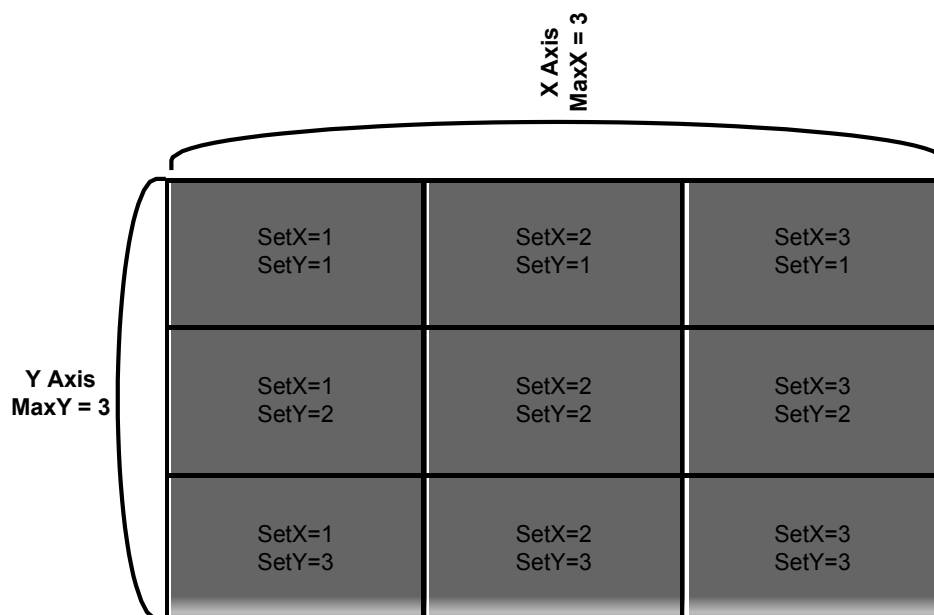
5) Video Wall



- For quick reset of all the Video menu options to their original factory preset values.

1. Press the **MENU** button and then use **▲/▼** button to select the **PICTURE** icon.
2. Press the **▶** button and then use **▲/▼** button to select **Video Wall** menu.
3. Press **◀/▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

● Video Wall Layout Settings



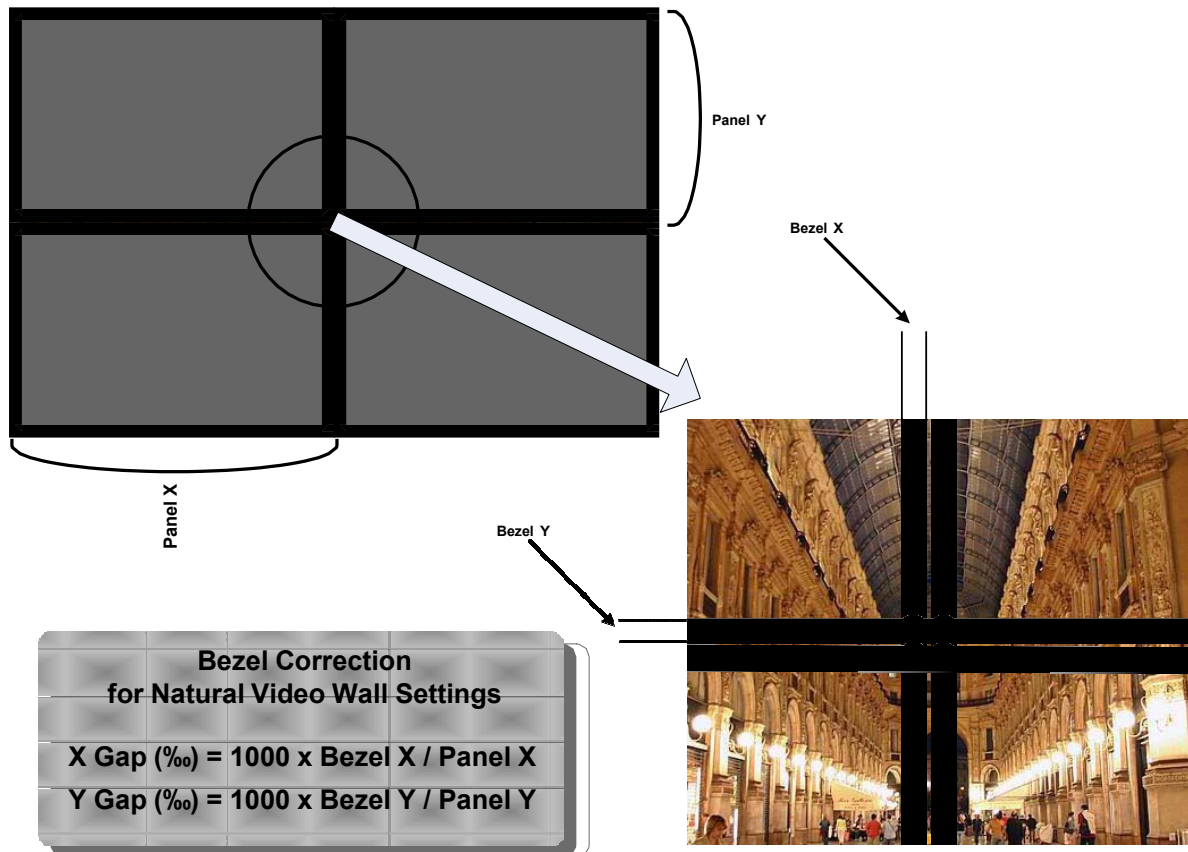
X Max : Maximum number of column tiles to divide video image.

Y Max : Maximum number of row tiles to divide video image.

Set X : Coordinate of video image's column position.

Set Y : Coordinate of video image's row position.

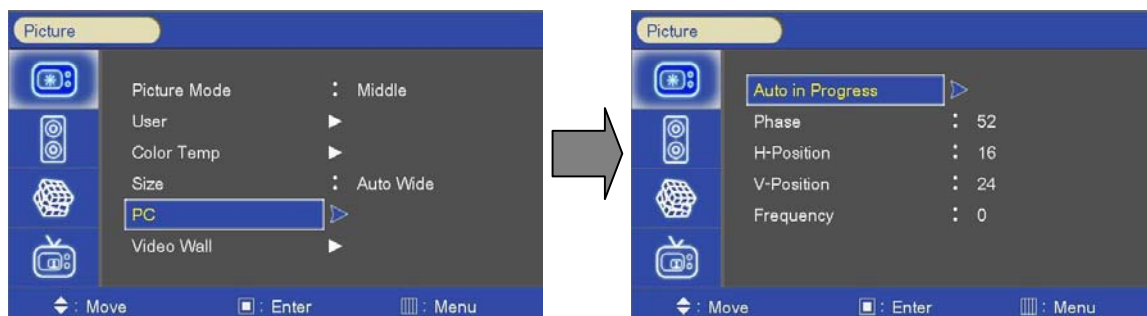
- **Setting the Bezel Corrections for Natural Tiled Image**



X Gap : Proportional Value of Vertical Bezel to Panel size by Per-mil unit.

Y Gap : Proportional Value of Horizontal Bezel to Panel size by Per-mil unit.

6) PC Menu

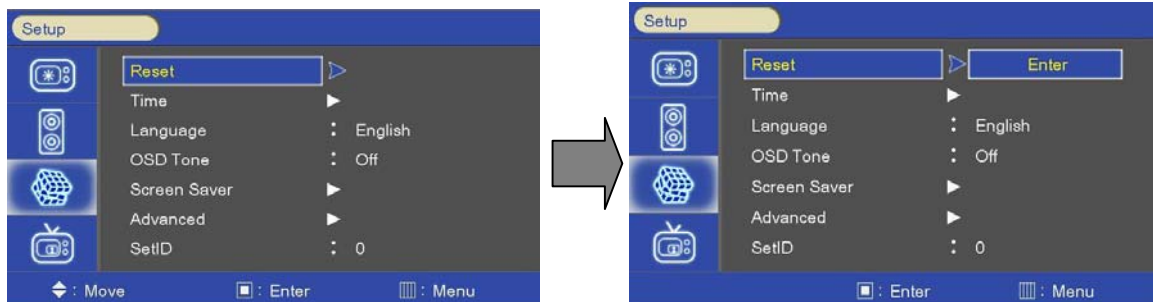


1. Press the **MENU** button and then use **▲/▼** button to select the **PICTURE** icon.
2. Press the **▶** button and then use **▲/▼** button to select **PC Menu**.
3. Press **▶** button and then use **◀/▶** button to make appropriate adjustments.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6. SETUP MENU OPTIONS

1) Reset

Resets user setting values as default



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Reset** menu.
3. Press the ► or **SELECT** button and then monitor's user settings are reset as default.

2) Time Settings

Enable the user to set up the clock information.



2-1) Clock

If current time setting is wrong, reset the clock manually.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select **Time**.
3. Press the ► button and then use ▲/▼ button to select **Clock**.
4. Press the ► button and then use ◀/▶ button to select the **Hour, Minute**.
5. Use ▲/▼ button to adjust clock.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

2-2) On Timer

Timer function operates only if current time has been set.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select **Time**.
3. Press the ► button and then use ▲/▼ button to select **On Timer**.
4. Press the ► button and then use ◀/▶ button to select the **Hour, Minute, Activation**.
5. Use ▲/▼ button to adjust on time schedule and activation.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

2-3) Off Timer

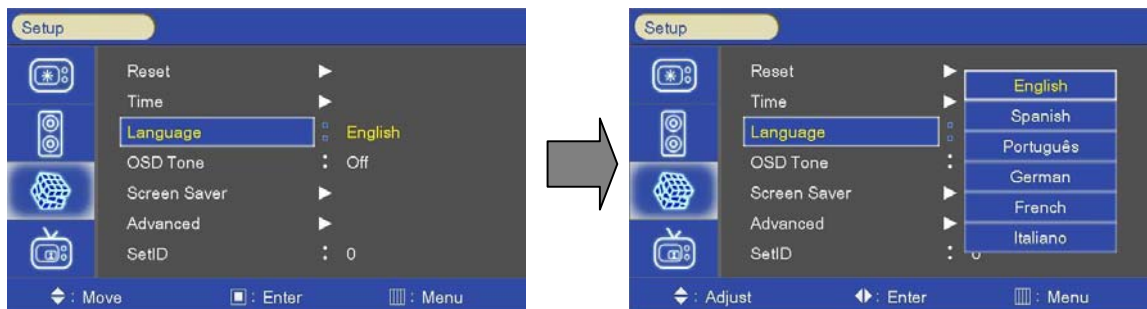
Timer function operates only if current time has been set.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select **Time**.
3. Press the ► button and then use ▲/▼ button to select **Off Timer**.
4. Press the ► button and then use ◀/▶ button to select the **Hour, Minute, Activation**.
5. Use ▲/▼ button to adjust off time schedule and activation.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

3) Language

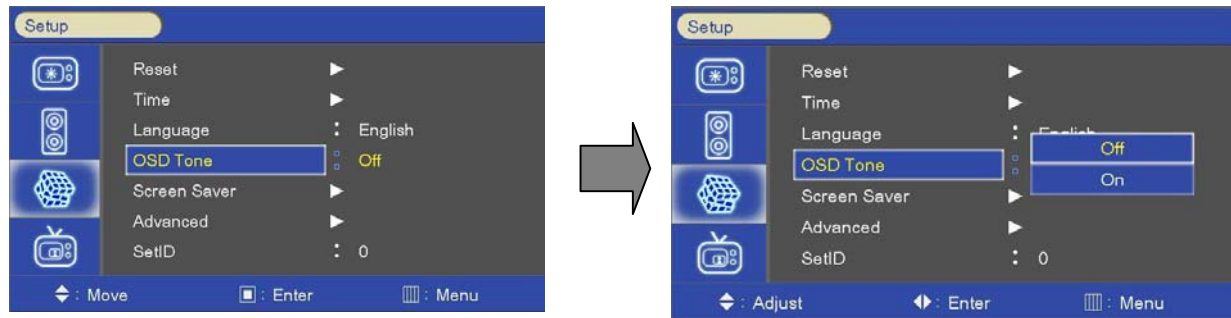
- Select a language for the menus to appear in.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Menu Language** menu.
3. Press the ► button and then use ▲/▼ button to select the desired option:
English, Spanish, Portuguese, German, French, Italiano.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

4) OSD Tone Control

- Disable blending OSD background with video image.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **OSD Tone** menu.
3. Press the ► button and then use ▲/▼ button to select the desired option: **Off, On**.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

5) Screen Saver

- Enables screen saver functions to avoid panel burning.

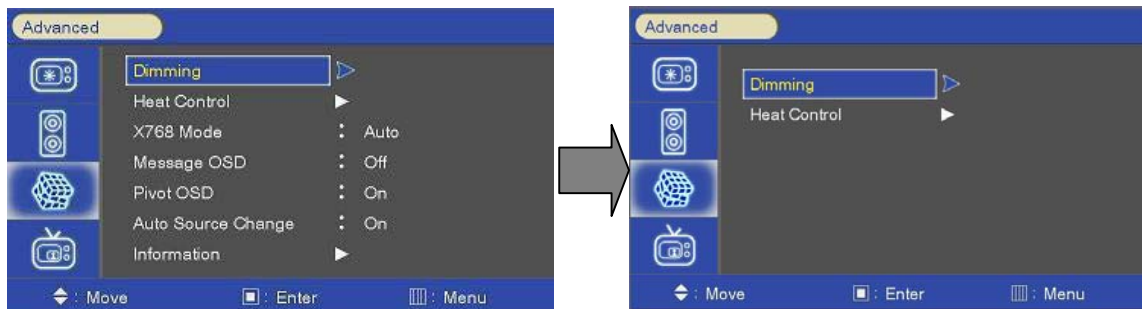


1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Screen Saver** Menu.
3. Press the ► button and then use ▲/▼ button to select the desired functions.
4. Press the ► button and then use ▲/▼ ◀/▶ button to set Screen Saver options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6) Advanced Menu

6-1) Dimming

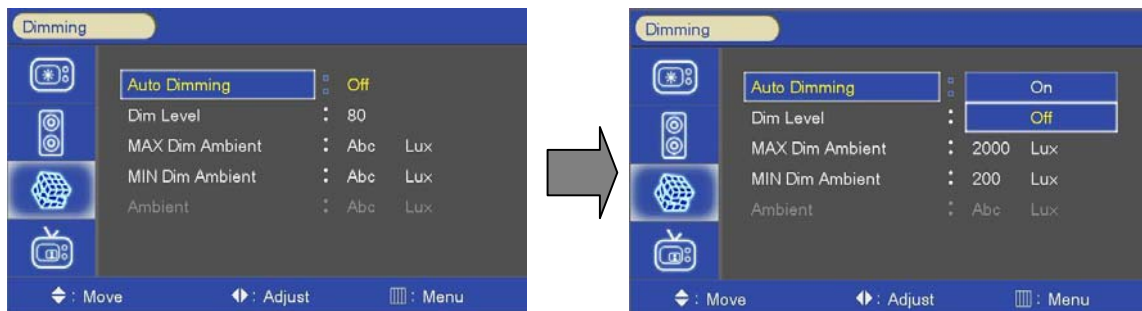
- Automatic dimming controls by light sensor in Dimming menu.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Dimming** Menu.
4. Press the ► button and then use ▲/▼ ◀/▶ button to set Dimming options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-1-1) Dimming Menu – Auto Dimming (Light Ambient Sensor Option only)

- Enable/disable auto dimming control by light ambient sensor



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Dimming** Menu.
4. Press the ► button and then use ▲/▼ button to select the **Auto Dimming** functions.
5. Press the ► button and then use ▲/▼ button to set Auto Dimming options.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-1-2) Dim Level

- Controls Inverter dimming level (0V – 3.3V)



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Dimming** Menu.
4. Press the ► button and then use ▲/▼ button to select the **Dim Level** functions.
5. Press the ► button and then use ◀/▶ button to set **Dim Level** functions.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-1-3) Dimming Menu – MAX Dim Ambient (Light Ambient Sensor Option only)

- Adjusts detected light ambient to set the maximum dimming



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Dimming** Menu.
4. Press the ► button and then use ▲/▼ button to select the **MAX Dim Ambient** functions.
5. Use ◀/▶ button to set detected light ambient value by LUX unit.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-1-4) Dimming Menu – MIN Dim Ambient (Light Ambient Sensor Option only)

- Adjusts detected light ambient to set the minimum dimming



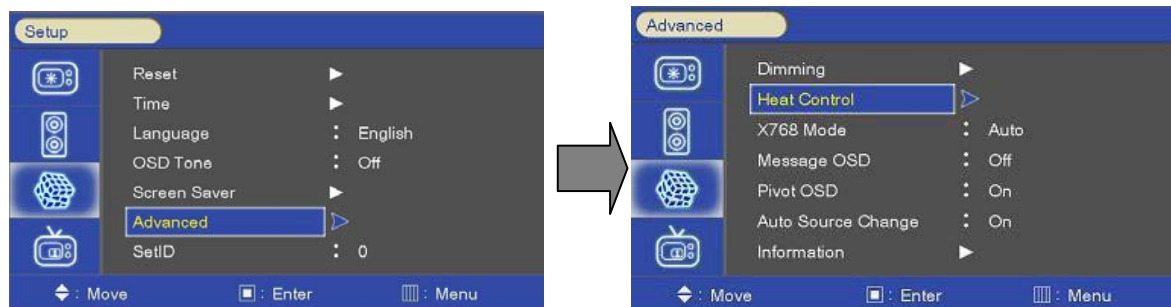
1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Dimming** Menu.
4. Press the ► button and then use ▲/▼ button to select the **MIN Dim Ambient** functions.
5. Use ◀/▶ button to set detected light ambient value by LUX unit.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-1-5) Dimming Menu – Ambient (Light Ambient Sensor Option only)

- Displays current detected light ambient level by LUX unit.

6-2) Advanced Menu – Heat Control

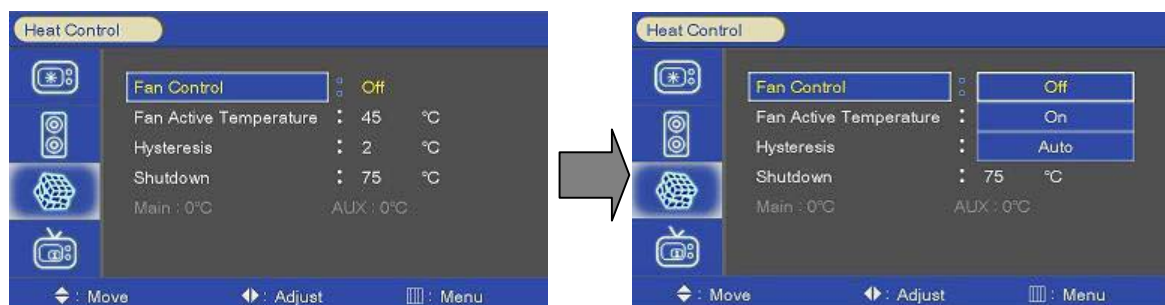
- Automatic Fan controls by internal/external temperature sensor in Dimming menu.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Heat Control** Menu.
4. Press the ► button and then use ▲/▼ ◀/▶ button to set Heat Control options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-2-1) Heat Control Menu – Fan Control

- Controls fan driving option by temperature sensor / force on / force off



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Heat Control** Menu.
4. Press the ► button and then use ▲/▼ button to select the **Fan Control** functions.
5. Press the ► button and then use ▲/▼ button to set **Off, On, Auto** options.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-2-2) Heat Control Menu – Fan Active Temperature

- Adjusts fan driving temperature by Celsius degree. It works only when the **Fan Control** setting is **Auto**.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Heat Control** Menu.
4. Press the ► button and then use ▲/▼ button to select the **Fan Active Temperature** Menu.
5. Use ◀/▶ button to set fan driving temperature by Celsius degree unit.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-2-3) Heat Control Menu – Hysteresis

- Adjusts fan driving hysteresis temperature by Celsius degree.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Heat Control** Menu.
4. Press the ► button and then use ▲/▼ button to select the **Hysteresis** Menu.
5. Use ◀/▶ button to set fan driving hysteresis temperature by Celsius degree unit.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-2-4) Heat Control – Shutdown

- Adjusts shutdown mode temperature by Celsius degree.
- When current temperature reaches the shutdown temp, the monitor enters shutdown mode.



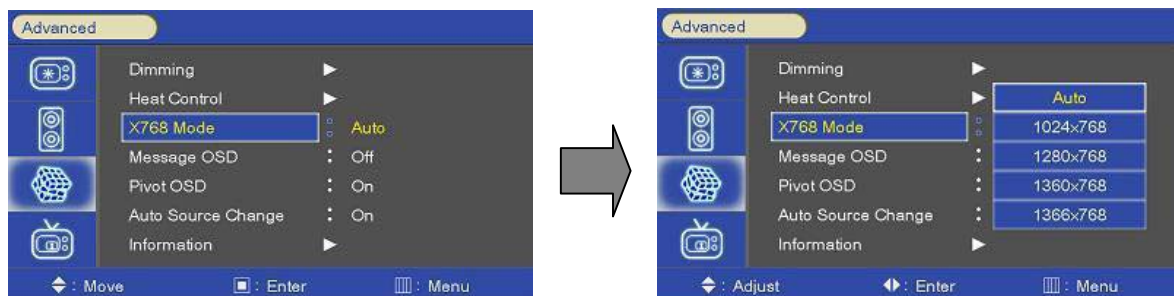
1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **shutdown** Menu.
4. Press the ► button and then use ▲/▼ button to select the **shutdown** Menu.
5. Use ◀/▶ button to set fan driving hysteresis temperature by Celsius degree unit.
6. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-2-5) Heat Control – Current temperature

- Displays current detected main sensor's temperature and auxiliary sensor's (option) temperature

6-3) Advanced Menu – X768 Mode

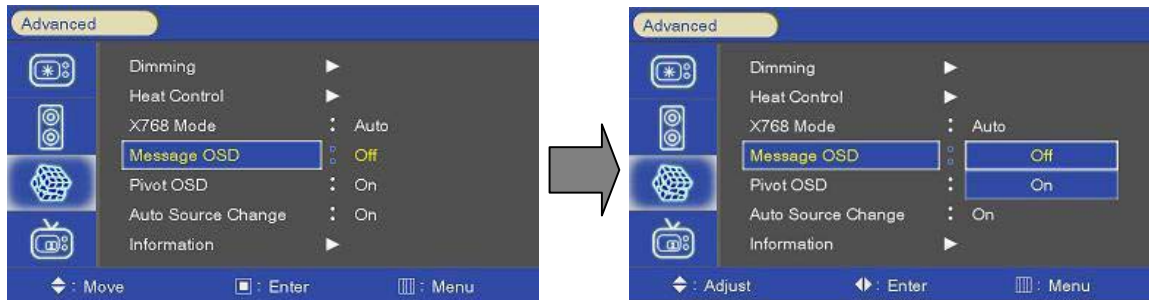
- When PC input resolution is x768 series, fix output resolution. .



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **X768 Mode** Menu.
4. Press the ► button and then use ▲/▼ button to set output resolution options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-4) Advanced Menu – Message OSD

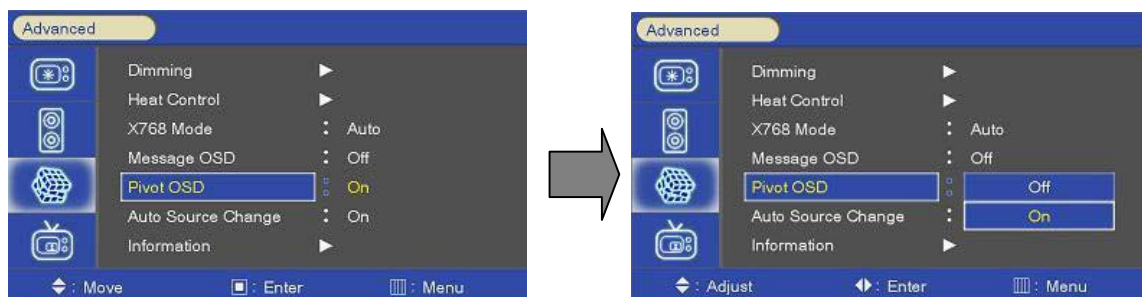
- When source change, source OSD display option.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Message OSD** Menu.
4. Press the ► button and then use ▲/▼ button to set **Off, On** options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-5) Advanced Menu – Pivot OSD

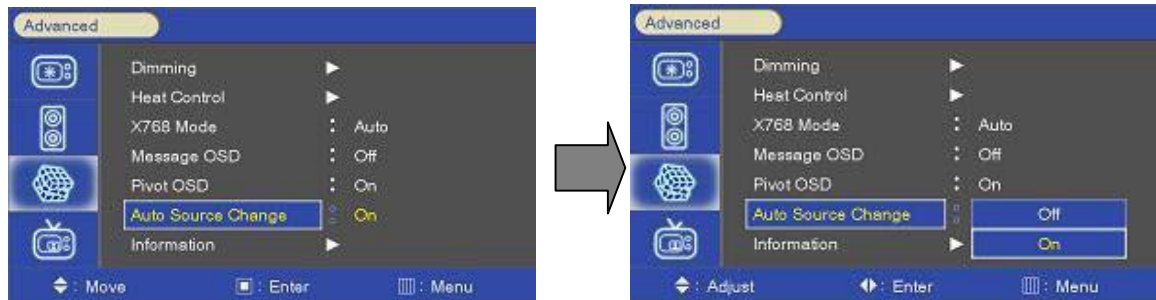
- Control angle of OSD when panel is portrait mode.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Pivot OSD** Menu.
4. Press the ► button and then use ▲/▼ button to set **Off, On** options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-6) Advanced Menu – Auto Source Change

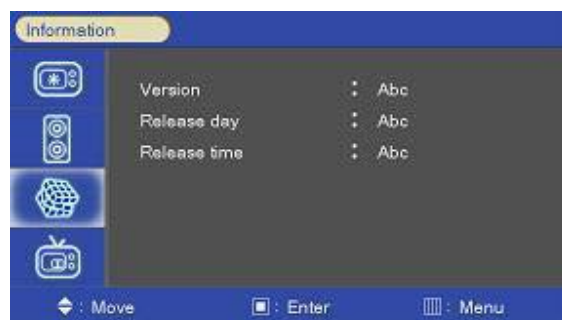
- When present mode is no signal(not connect cable), auto detect other source and display.



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Auto Source Change** Menu.
4. Press the ► button and then use ▲/▼ button to set **Off, On** options.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6-7) Advanced Menu – Information

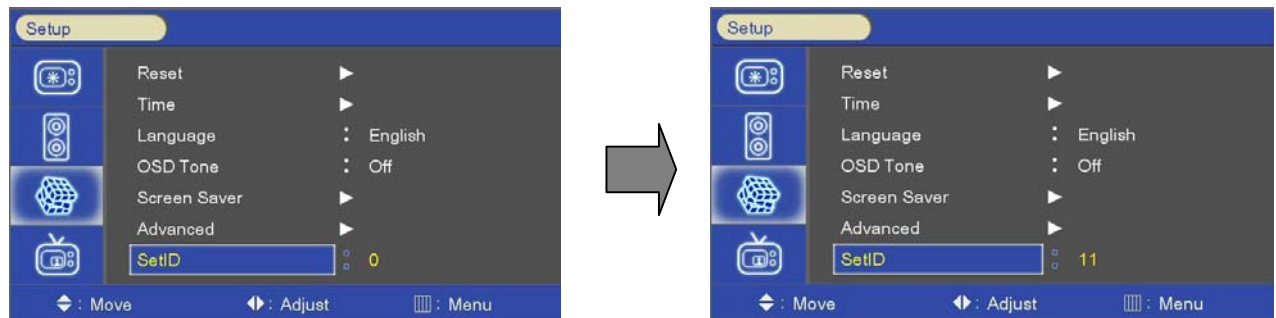
- Show present F/W information



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **Information** Menu.
4. Press the ► button and then check information.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

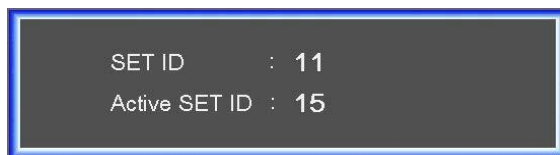
7) Set ID

- If use video wall and control each Board, must set ID numbers of each Board (01~99).



1. Press the **MENU** button and then use ▲/▼ button to select the **SETUP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Advanced** Menu.
3. Press the ► button and then use ▲/▼ button to select the **SetID** Menu.
4. Press the ► button and then use ◀/▶ button to SetID numbers.
5. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

7-1) Set ID & Active SET ID



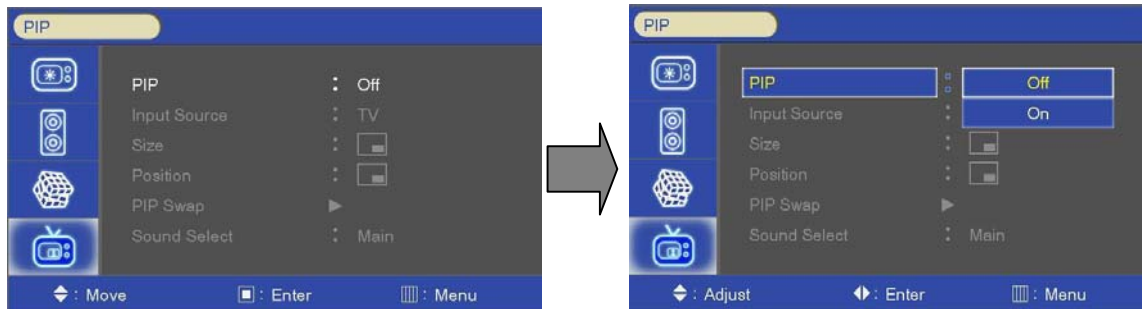
- Set Active SET ID number Before Control each Board by Remote control or RS-232
- If control only 15th Board, Active SET ID must set 15.

1. Press the **BLUE** button and then use 0~9 button to select the **Active SET ID**.
2. If Press the **RED** button, delete ID number.

7. PIP (Picture In Picture)

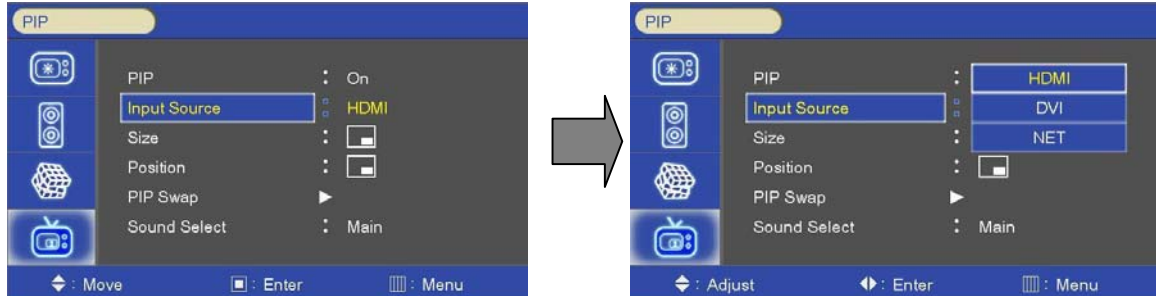
- Watch two programs or source at the same time. And set up PIP size and position.
- This function does not support at Video wall mode.

1) PIP ON/OFF



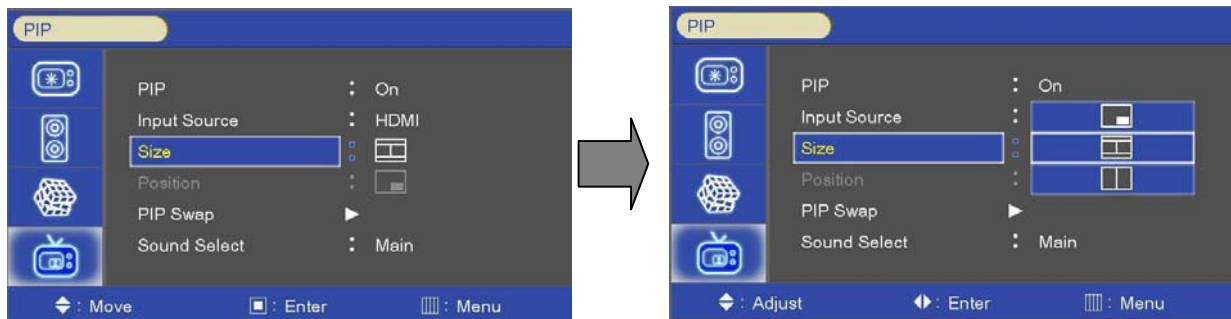
1. Press the **MENU** button and then **▲/▼** button to select the **PIP** icon.
2. Press the **▶** button and then use **▲/▼** button to select the desired PIP option; On, Off
3. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

2) Input Source



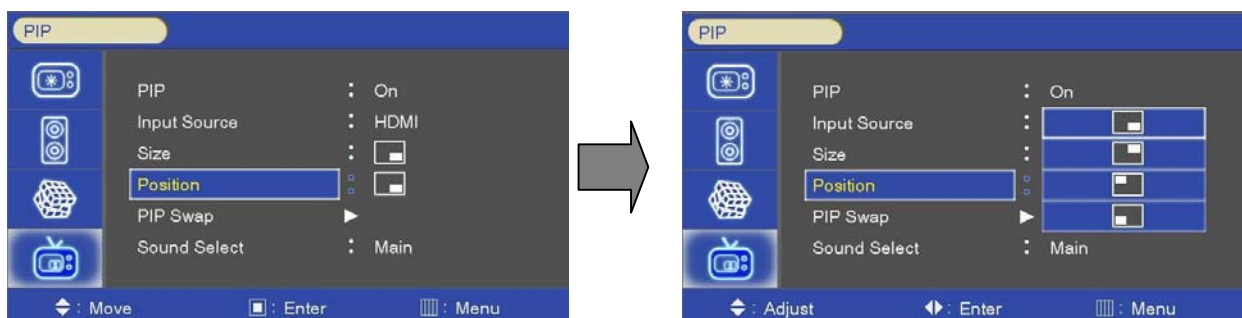
1. Press the **MENU** button and then use **▲/▼** button to select the **PIP** icon.
2. Press the **▶** button and then use **▲/▼** button to select the **Input Source** Menu.
3. Press the **▶** button and then use **▲/▼** button to select the desired Input Source option.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

3) Size



1. Press the **MENU** button and then use ▲/▼ button to select the **PIP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Size** Menu.
3. Press the ► button and then use ▲/▼ button to select the desired Size option.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

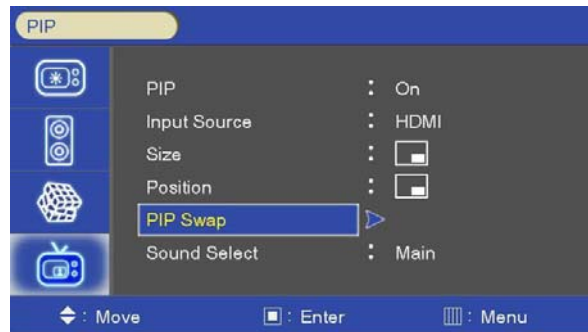
4) Position



1. Press the **MENU** button and then use ▲/▼ button to select the **PIP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Position** Menu.
3. Press the ► button and then use ▲/▼ button to select the desired Position option.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

5) PIP Swap

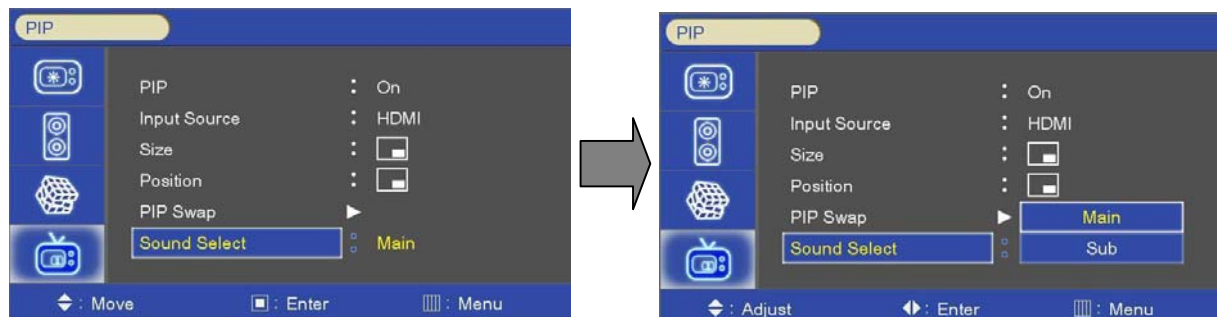
– Using Swap option, you can exchange two programs or source at the same time.



1. Press the **MENU** button and then use ▲/▼ button to select the **PIP** icon.
2. Press the ► button and then use ▲/▼ button to select the **pip Swap** Menu.
3. Press the ► button to select the PIP Swap option.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

6) Sound Select

– Using Sound Swap option, you can exchange the sound of two programs or source at the same time.



1. Press the **MENU** button and then use ▲/▼ button to select the **PIP** icon.
2. Press the ► button and then use ▲/▼ button to select the **Sound Swap** Menu.
3. Press the ► button and then use ▲/▼ button to select the desired Sound Swap option.
4. Press **EXIT** button to return to monitor viewing or press **MENU** button to return to the previous menu.

8. SERIAL CONTROL PROTOCOL

1) Serial Setup

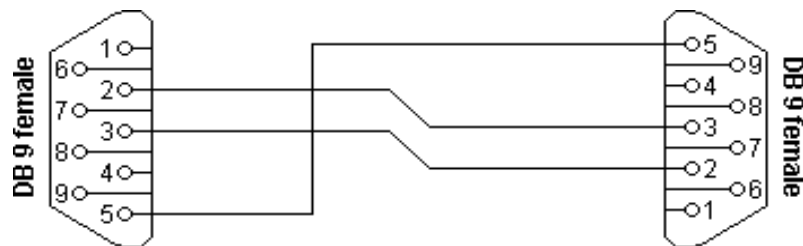
Item	Settings
Baud rate	19200bps
Data Bit	8bit
Stop Bit	1bit
Parity Bit	None
Stream Control	None

1-1) Serial Cable for PC to Monitor

CONNECTOR1	CONNECTOR2	FUNCTION		
2	3	RX		TX
3	2	TX		RX
5	5	SIGNAL GROUND		

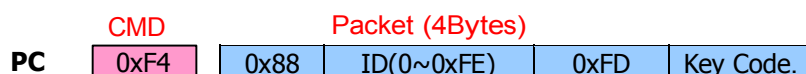
CONNECTOR1

CONNECTOR2



2) Protocols

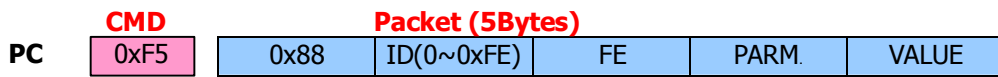
2-1) Virtual Remote Control



Command Format

0xFX : F = Command Start Sending , X = No of Byte to Send
Current Example (0xF4) : Start Sending 4 Bytes of Packet Data

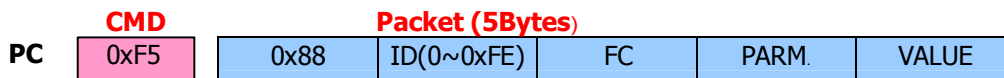
2-2) Setting Parameters to Monitor



Command Format

0xFX : F = Command Send Start , X = No of Byte to Send
Current Example (0xF5) : Start Send 5 Byte of Packet Data

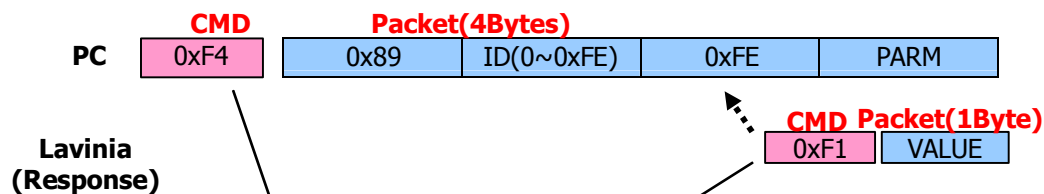
Data setting only (Not adjust function for speed)



Command Format

0xFX : F = Command Send Start , X = No of Byte to Send
Current Example (0xF5) : Start Send 5 Byte of Packet Data

2-3)Read Parameters from Monitor



Command Format

0xFX : F = Command Start Sending , X = No of Byte to Send

Example

0xF4 : Start Sending 4 Bytes of Packet Data
0xF1 : Start Sending 1 Byte of Packet Data

3) Control Command Packet

3-1) Virtual RCU (Remote Control Unit) : Emulates the Infra Red Remote Control

CMD	Data1	Data2	Data3	Description	Data4
Command	Target	ID	CMD		Key Code
0xF4 (Start Sending)	0x88	0xFF (0x00~0 xFE)	0xFD (RCU)	KEY_INPUT	0x13
				KEY_PR+	0x47
				KEY_PR-	0x4B
				KEY_VOLUP	0x53
				KEY_VOLDN	0x57
				KEY_MUTE	0x03
				KEY_SNDSTD	0x4A
				KEY_PICSTD	0x07
				KEY_MENU	0x43
				KEY_STATUS	0x06
				KEY_PIPON ⁽²⁾	0x08
				KEY_PIPPOS	0x48
				KEY_STILL	0x0A
				KEY_PICSIZE	0x4D
				KEY_EXIT	0x50
				KEY_PC	0x58
				KEY_DVI	
				KEY_AV1	
				KEY_AV2	
				KEY_AV4	
				KEY_COMP1	
				KEY_0 ⁽¹⁾	0x1E
				KEY_1 ⁽¹⁾	0x1D
				KEY_2 ⁽¹⁾	0x1C
				KEY_3 ⁽¹⁾	0x46
				KEY_4 ⁽¹⁾	0x15
				KEY_5 ⁽¹⁾	0x14
				KEY_6 ⁽¹⁾	0x45
				KEY_7 ⁽¹⁾	0x00
				KEY_8 ⁽¹⁾	0x1F
				KEY_9 ⁽¹⁾	0x1B
				KEY_ENTER	0x04
				KEY_SLEEP	0x0B

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3-2) System Parameter Direct Settings/Read Packet

CMD	Data1	Data2	Data3	Data4	Data5	Description	Range	
Command	Target	ID	CMD	Param	Value		Min	Ma x
0xF5 (Start Set) 0xF4 (Start Get)	0x88 (Set) 0x89 (Get)	0xXX (0x00~0xFE)	0xFE /0xFC Set /Get Param.	0x00	0x00~0 xF F (By Min- Max) Not Send in Get Mode	LANGUAGE	0	5
				0x01		CURRENTSOURCE ⁽¹⁾	0	10
				0x02		PC_PICTUREMODE	0	4
				0x03		COLORTEMP	0	5
				0x04		CONTRAST	0	100
				0x05		BRIGHTNESS	0	100
				0x06		COLOR	0	100
				0x07		SHARPNESS	0	100
				0x08		RF_PICTUREMODE	0	4
				0x09		Reserved	-	-
				0x0A		RF_CONTRAST	0	100
				0x0B		RF_BRIGHTNESS	0	100
				0x0C		RF_COLOR	0	100
				0x0D		NTSC_TINT	0	100
				0x0E		RF_SHARPNESS	0	100
				0x0F		SCALEMODE	0	-
				0x10		USERRED	0	100
				0x11		USERGREEN	0	100
				0x12		USERBLUE	0	100
				0x13		PIPEN	0	1
				0x14		PIPSOURCE	0	11
				0x15		PIPSIZE	0	2
				0x16		PIPLOCATE	0	3
				0x17		MUTE	0	1
				0x18		SOUNDSTD	0	4
				0x19		AUTOVOLUME	0	1
				0x1A		SOUNDSRC	0	1
				0x1B		VOLUME	0	100
				0x1C		HPVOLUME	0	100
				0x1D		BALANCE	0	100
				0x1E		EQ100HZ	0	20
				0x1F		EQ300HZ	0	20
				0x20		EQ1KHZ	0	20
				0x21		EQ3KHZ	0	20
				0x22		EQ10KHZ	0	20
				0x23		ONHOUR	0	23
				0x24		ONMINUTE	0	59

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				0x25	ONTIMEONOFF	0	1
				0x26	ONTIMEVOL	0	100
				0x27	OFFHOUR	0	23
				0x28	OFFMINUTE	0	59
				0x29	OFFTIMEONOFF	0	1
				0x2A	SETID	0	254
				0x2B	HALFTONE	0	1
				0x2C	BLUESCREEN	0	1
				0x2D	PIXELSHIFT_EN	0	1
				0x2E	WIPER_EN	0	1
				0x30	BGGRAY	0	7
				0x32	CURHOUR	0	23
				0x33	CURMINUTE	0	59
				0x34	GPIO	0	0xF0
				0x35	KEYLOCK	0	1
				0x36	REMOTELOCK	0	1
				0x37	ILLUMINANCE ⁽⁷⁾⁽⁸⁾	-	-
				0x38	MAX_ILLUMINANCE ⁽²⁾	0	200
				0x39	MIN_ILLUMINANCE ⁽³⁾	0	200
				0x3A	AUTO_DIM	0	1
				0x3B	DIM_LEVEL ⁽⁴⁾	0	100
				0x3C	CURTEMP_MAIN ⁽⁵⁾⁽⁸⁾	-	-
				0x3D	CURTEMP_AUX ⁽⁵⁾⁽⁸⁾	-	-
				0x3E	TEMP_THRESHOLD ⁽⁵⁾	60	200
				0x3F	TEMP_HYSTERESIS ⁽⁶⁾	2	20
				0x40	FAN_CONTROL	0	2
				0x41	FAN_ACTIVE	0	1
				0x42	SETX	0	4
				0x43	SETY	0	4
				0x44	SETXMAX	1	5
				0x45	SETYMAX	1	5
				0x46	SETXGAP ⁽⁹⁾	0	200
				0x47	SETYGAP ⁽⁹⁾	0	200
				0x48	TEMP_SHUTDOWN ⁽⁵⁾	60	200
				0x49	Factory Video RGain	0	255
				0x4a	Factory Video GGain	0	255
				0x4b	Factory Video BGain	0	255
				0x4c	Factory Video ROffset	0	255
				0x4d	Factory Video GOffset	0	255
				0x4e	Factory Video BOffset	0	255
				0x4f	Factory Comp. RGain	0	255
				0x50	Factory Comp. GGain	0	255
				0x51	Factory Comp. BGain	0	255
				0x52	Factory Comp. ROffset	0	255

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				0x53	Factory Comp. GOffset	0	255
				0x54	Factory Comp. BOffset	0	255
				0x55	Factory PC RGain	0	255
				0x56	Factory PC GGain	0	255
				0x57	Factory PC BGain	0	255
				0x58	Factory PC ROffset	0	255
				0x59	Factory PC GOffset	0	255
				0x5a	Factory PC BOffset	0	255
				0x5b	Factory DVI RGain	0	255
				0x5c	Factory DVI GGain	0	255
				0x5d	Factory DVI BGain	0	255
				0x5e	Factory DVI ROffset	0	255
				0x5f	Factory DVI GOffset	0	255
				0x60	Factory DVI BOffset	0	255
				0x61	Autoadjust execute	1	
				0x62	Blankscreen	0	1
				0x63	ILLUMINANCE_x10 Rd only	0	-
				0x64	Status	0	1
				0x65	H Frequency	0	-
				0x66	V Frequency	0	-
				0xFD	Monitor Refresh	1	1
				0xFE	POWER	0	1

Power(31), DPMS_EN(2f) are discarded.

Notice

(1) CURSOURCE Setting Value

AV1:1, AV2:2, SVIDEO:4, COMP1:7, HDIM:11, DVI12, DSUB:10, MMP:15

(2) MAX_ILLUMINANCE Settings

Setting Value = Ambient Level (by LUX) / 100

Ex) Desired Ambient is 10000 Lux, Setting is 100 (= 10000 / 100)

(3) MIN_ILLUMINACE Settings

Setting Value = Ambient Level (by LUX) / 10

Ex) Desired Ambient is 200 Lux, Setting is 20 (= 200 / 10)

(4) DIM_LEVEL Settings

Dimming is controlled by Brightness Settings. Not working even set.

(5) TEMPERATURE Settings

Setting Value = Desired temperture(by Celsius) x 2 + 60

Ex) Desired temperature is 60°C, Setting is 180 (= 60 x 2 + 60)

(6) TEMP_HYSTERESIS Settings

Setting Value = Desired Hysteresis(by Celsius) x 2

Ex) Desired Hysteresis is 2°C, Setting is 4 (= 2 x 2)

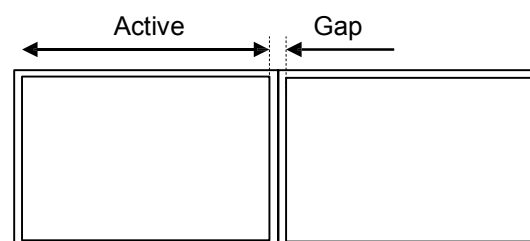
(7) ILLUMINACE

Current lux/10. If Cur_lux>2550 then Value=255

(8) Read only Command

(9) Gap Settings

Setting Value =(int) (1000 * Gap / Active)



4) Control Examples at Master PC
4-1)Set Input Source to RGB Input

CMD		Packet (5Bytes)			
0xF5 Start	0x88 Target	0 ID	0xFE Set Param CMD	0x01 CURRENT SOURCE	10 RGB(=10)

4-2)Read Power State

